

**ABSTRACT:**

The invention relates to a passive ceramic component with a carrier substrate (1), a first and a second electrode (2, 6), and a ferroelectric dielectric (5). The electrodes (2, 6) and the dielectric (5) preferably comprise a multilayer structure with at least a first and a second layer. The capacitance value C of the capacitor can be varied through the application of a voltage to the electrodes (2, 6), owing to the field dependence of the dielectric constant  $\epsilon_r$  of the dielectric (5).

Such components may be used in filter devices or in delay lines or as replacements for variable-capacitance diodes in the manufacture of voltage-controlled oscillators.

Fig. 1